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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Group Art Unit 1641

In re Patent Application of

Eric Henderson, et al.

Application No. 10/541,013

Confirmation No.: 9052

Filed: June 28, 2005

Examiner: Unknown

"METHOD AND APPARATUS FOR  
MOLECULAR ANALYSIS IN SMALL  
SAMPLE VOLUMES"

INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 CFR §1.97(b)

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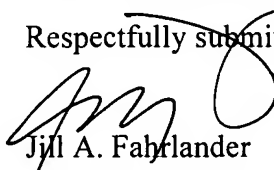
Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and PTO/SB/08B and copies of non-U.S. patent references are attached.

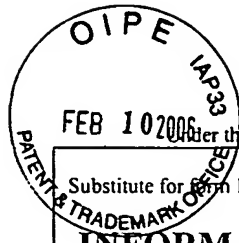
Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,

  
Jill A. Fahrlander  
Reg. No. 42,518

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Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

7

**Complete if Known**

Application Number	10/541,013
Filing Date	June 28, 2005
First Named Inventor	Eric Henderson
Group Art Unit	1641
Examiner Name	Unknown
Attorney Docket Number	016348-9048-US00

**U.S. PATENT DOCUMENTS**

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	4,728,591	Clark et al.	3/1/1988
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	JP	8094646	SHIMADZU CORP	4/12/1996		
	JP	7027771	HITACHI LTD.	1/31/1995		

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## FOREIGN PATENT DOCUMENTS

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		WO	00/04382	ZYOMYX, INC.	1/27/2000		
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	WO	03/036767	UNIVERSITY OF ILLINOIS	5/1/2003		
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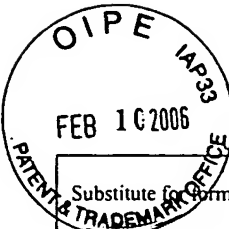
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		"Microbeam Mass Spectrometry" Chemical Science and Technology Laboratory, Surface and Microanalysis Science Division <a href="http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm">http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm</a> 7/18/2002.
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		ALLISON, D., <i>et al.</i> , "Direct atomic force microscopy imaging of EcoRI endonuclease site specifically bound to plasmid DNA molecules" <i>PNAS USA</i> , 1996, 93:8826-8829.
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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		BAILEY, C.P., <i>et al.</i> , Cationic oligonucleotides can mediate specific inhibition of gene expression in <i>Xenopus oocytes</i> " <i>Nuc. Acids Res.</i> , 1998, 26(21):4860-4867.
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				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	3	of	28	Attorney Docket Number	016348-9048-US00

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		BINNING, <i>et al.</i> , "Surface studies by scanning tunneling microscopy" <i>Phys. Rev. Lett.</i> , 1982, 49(1):57-61.
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		BRANDOW, S., <i>et al.</i> , "Metal pattern fabrication using the local electric field of conducting atomic force microscope probe" <i>J. Vac. Sci. Technol.</i> , May/June 1997, 15(3):1455-1459.
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		BULYK, <i>et al.</i> , "Quantifying DNA-protein interactions by double-stranded DNA arrays" <i>Nature Biotechnology</i> , June 1999, 17:573-577.

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		BUSCH, K.L., "Desorption Ionization Mass Spectrometry," <i>J. Mass Spectrometry</i> (1995) 30:233-240
		BUSTAMANTE C., <i>et al.</i> , "Circular DNA Molecules Imaged in Air by Scanning Force Microscopy" <i>Biochemistry</i> , 1992, 31:22-26
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		COLLINS, <i>et al.</i> , "Nanotube Device" <i>Science</i> , 3 October 1997, 278:100-103.
		COLVIN, <i>et al.</i> "Semiconductor nanocrystals covalently bound to metal surfaces with self-assembled monolayers" <i>J. Am. Chem. Soc.</i> , 1992, 114:5221-5230.
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		DING, Y., RUGGERO, M. <i>et al.</i> , "Development of UHV-STM/TOF hybrid mass analyzer system for nano-characterization of metal silicide surfaces" 198th Meeting of the Electrochemical Society, Phoenix, Arizona (2000).
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		DURBIN, S., FEHER, G., "Protein crystallization" <i>Annual Review of Phys Chemistry</i> , 1996, 47:171-204.
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		FAN, S., <i>et al.</i> , "Self-oriented regular arrays of carbon nanotubes and their functional devices" <i>Science</i> , 1999, 283, 512.

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		FANG, <i>et al.</i> , "Membrane Protein Microarrays" <i>JACS</i> , 2002, 124(11):2394-2395.
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		FODOR, S., <i>et al.</i> , "Multiplexed biochemical assays with biological chips" <i>Nature</i> , 1993, 364:555-557.
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		FRITZSCHE, W., <i>et al.</i> , "Application of Atomic Force Microscopy to Visualization of DNA, Chromatin and Chromosomes" <i>Critical Reviews™ in Eukaryotic Gene Expression</i> , 1997, 7(3):231-240.

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		FRITZSCHE, W., <i>et al.</i> , "Chicken Erythrocyte Nucleosomes Have a Defined Orientation along the Linker DNA-A Scanning Force Microscopy Study" <i>Scanning</i> , 1997, 19:42-47.
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		GRABAR, <i>et al.</i> , "Preparation and characterization of Au colloid monolayers" <i>Anal. Chem.</i> , 1995, 67(4):735-743.
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		HENDERSON, E., "Atomic force microscopy of conventional and unconventional nucleic acid structures" <i>Journal of Microscopy</i> , 1992, 77-84.
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		HINTERDORFER, P. <i>et al.</i> , "Detection and localization of individual antibody-antigen recognition events by atomic force microscopy" <i>PNAS</i> , 1996, 93:3477-3481.
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		HOH, J.H., <i>et al.</i> , "Atomic force microscopy and dissection of gap junctions" <i>Science</i> , 1991, 1405-1408.
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		HOVIS, <i>et al.</i> , "Structure and bonding of ordered organic monolayers of 1,5-cyclooctadiene on the silicon (001) Surface" <i>J. Phys. Chem. B.</i> , 1997, 101: 9581-9585.
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				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	12	of	28	Attorney Docket Number	016348-9048-US00

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		HUCK, <i>et al.</i> , "Patterned polymer multilayers as etch resists" <i>Langmuir</i> , 1999, 15:6862-6867.
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		KARPOVICH, <i>et al.</i> , "Direct measurement of the adsorption kinetics of alkanethiolate self-assembled monolayers on microcrystalline gold surface" <i>Langmuir</i> , 1994, 10:3315-3322.
		KIM, <i>et al.</i> , "Nanotube nanotweezers" <i>Science</i> , 10 December 1999, 286:2148-2150.
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		LAL, R. and JOHN, S.A., "Biological applications of atomic force microscopy" <i>Am J. Physiology</i> , 1994, 266(1):1-21.
		LANIO, T., <i>et al.</i> , "PCR-based random mutagenesis method using spiked oligonucleotides to randomize selected parts of gene without any wild-type background" <i>Biotechniques</i> , 1998, 25(6):958-965.
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		LÜTHI, <i>et al.</i> , "Parallel nanodevice fabrication using a combination of shadow mask and scanning probe methods: <i>Applied Physics Letters</i> , 1999, 75(9):1314-1316.
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		MARSH, T.C., <i>et al.</i> , "G-wires: Self-assembly of a telomeric oligonucleotide, d(GGGGTTGGGG), into large superstructures" <i>Biochemistry</i> 1994, 33:10718-10724.
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		MEYER, G. and N.M. AMER, "Novel optical approach to atomic force microscopy" <i>Appl. Phys. Lett.</i> , 1988, 53:1045-1047.

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		MINNE, <i>et al.</i> , "Centimeter scale atomic force microscope imaging and lithography" <i>Applied Physics Letters</i> , 1998, 73(12):1742-1744.
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		MUSIL, C., "Nanostructuring of gold electrodes for immunosensing applications: <i>J. Vac. Sci. Technol. B.</i> , 1995, 13(6):2781-2786.
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		PAWELETZ, <i>et al.</i> , "Reverse phase protein microarrays which capture disease progression shoe activation of pro-survival pathways at the cancer invasion front" <i>Oncogen</i> , 2001, 20:1981-1989.
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		PINER, Richard, "Effect of water on lateral force microscopy in air" <i>Langmuir</i> , 1997, 13:6864-6868.
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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	20	of	28	Attorney Docket Number	016348-9048-US00

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		RANKIN, P.C. WILSON, A.T. "The Surface Chemistry of the Mica-Aluminum-Sulfate System" <i>Journal of Colloid and Interface Science</i> , (1969) 30(3):277-282.
		REED, <i>et al.</i> , "Conductance of molecular junction" <i>Science</i> , 1997, 278:252-254.
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		SANTOS, <i>et al.</i> , "Probing hydrophobic interactions of surfaces and macromolecules with atomic force microscope" <i>Book of Abstracts</i> , 214 ACS National meeting, September 7-11, 1997, PHYS-248.
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		SCHENA, <i>et al.</i> , "Parallel human genome analysis : Microarray-based expression monitoring of 1000 genes" <i>PNAS USA</i> , 1996, 93:10614-10619.
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		SHEEHAN, <i>et al.</i> , "Thiol diffusion and the role of humidity in "dip pen" nanolithography" <i>Physical Review Letters</i> , 15 April 2002, 88(15):156104-1-156104-4.
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		SONDAG-HUETHORST, <i>et al.</i> , "Generation of electrochemically deposited metal patterns by means of electron beam (nano)lithography of self-assembled monolayer resists" <i>Appl. Phys. Lett.</i> 1994, 64(3):285-287.
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		TANG, K., FU, D., <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes" <i>Nucleic Acids Research</i> , 1995, 23(16):3126-3131.
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		VESENKA, J. <i>et al.</i> , "A substrate preparation for reliable imaging of DNA molecules with the scanning force microscope" <i>Ultramicroscopy</i> , 1992, 42-44:1243-1249.
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		WANG, <i>et al.</i> , "Nanometer scale patterning and pattern transfer on amorphous Si, crystalline Si, and SiO <sub>2</sub> surfaces using self-assembled monolayers" <i>Appl. Phys. Lett.</i> , 1997, 70(12):1593-1595.
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		XIA, <i>et al.</i> , "Soft lithography" <i>Agnew Chem. Int. Ed.</i> , 1998, 37:551-575.
		XIA, <i>et al.</i> , "Unconventional methods for fabricating and patterning nanostructures" <i>Chem. Rev.</i> , 1999, 99:1823-1848.
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		YAN, <i>et al.</i> "Patterning a performed, reactive SAM using microcontact printing" <i>J. Am. Chem. Soc.</i> , 1998, 120:6179-6180.
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Examiner Signature		Date Considered	
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